

Figure 1

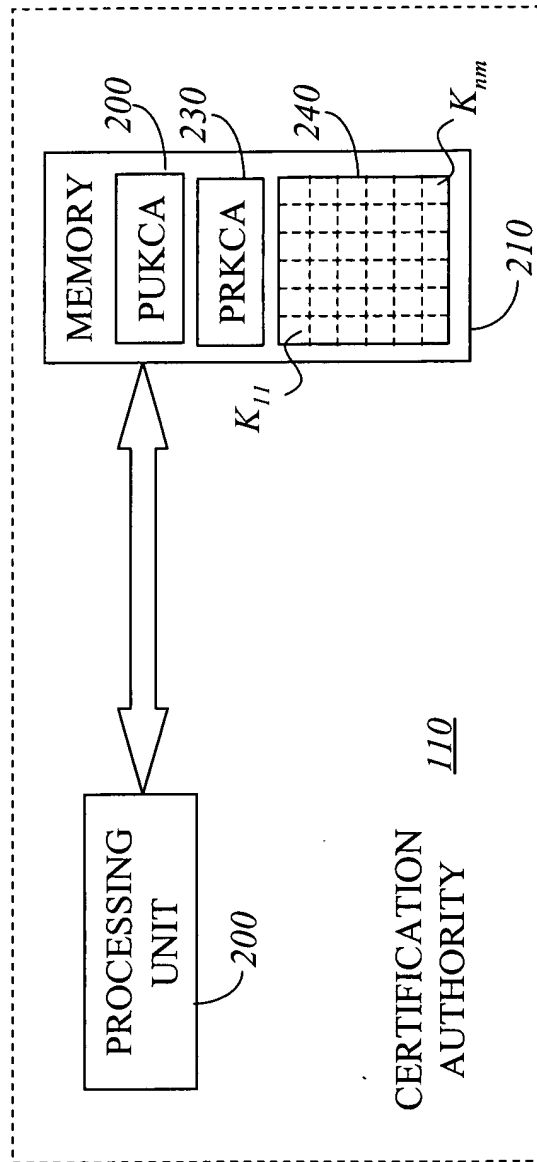


Figure 2

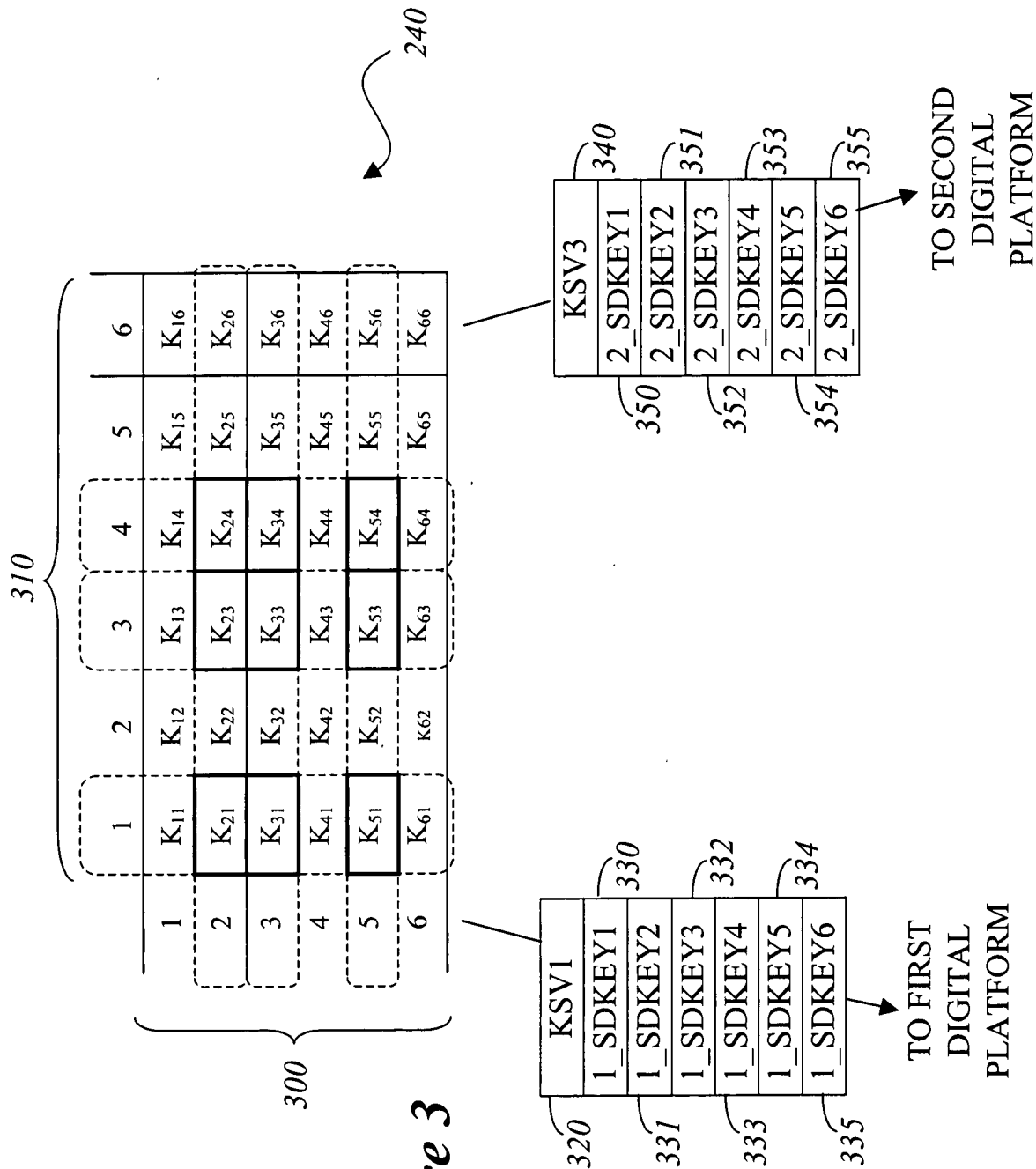
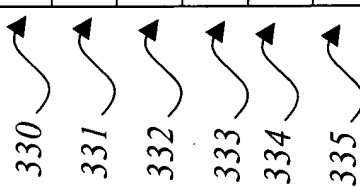



Figure 3



330	SELECT DEVICE KEYS (DP1)	CONTENTS
331	1_SDKEY1	$K_{21} + K_{31} + K_{51}$
332	1_SDKEY2	$K_{22} + K_{32} + K_{52}$
333	1_SDKEY3	$K_{23} + K_{33} + K_{53}$
334	1_SDKEY4	$K_{24} + K_{34} + K_{54}$
335	1_SDKEY5	$K_{25} + K_{35} + K_{55}$
	1_SDKEY6	$K_{26} + K_{36} + K_{56}$

*Figure 4*



350	SECRET DEVICE KEYS (DP2)	CONTENTS
351	2_SDKEY1	$K_{11} + K_{13} + K_{14}$
352	2_SDKEY2	$K_{21} + K_{23} + K_{24}$
353	2_SDKEY3	$K_{31} + K_{33} + K_{34}$
354	2_SDKEY4	$K_{41} + K_{43} + K_{44}$
355	2_SDKEY5	$K_{51} + K_{53} + K_{54}$
	2_SDKEY6	$K_{61} + K_{63} + K_{64}$

*Figure 5*

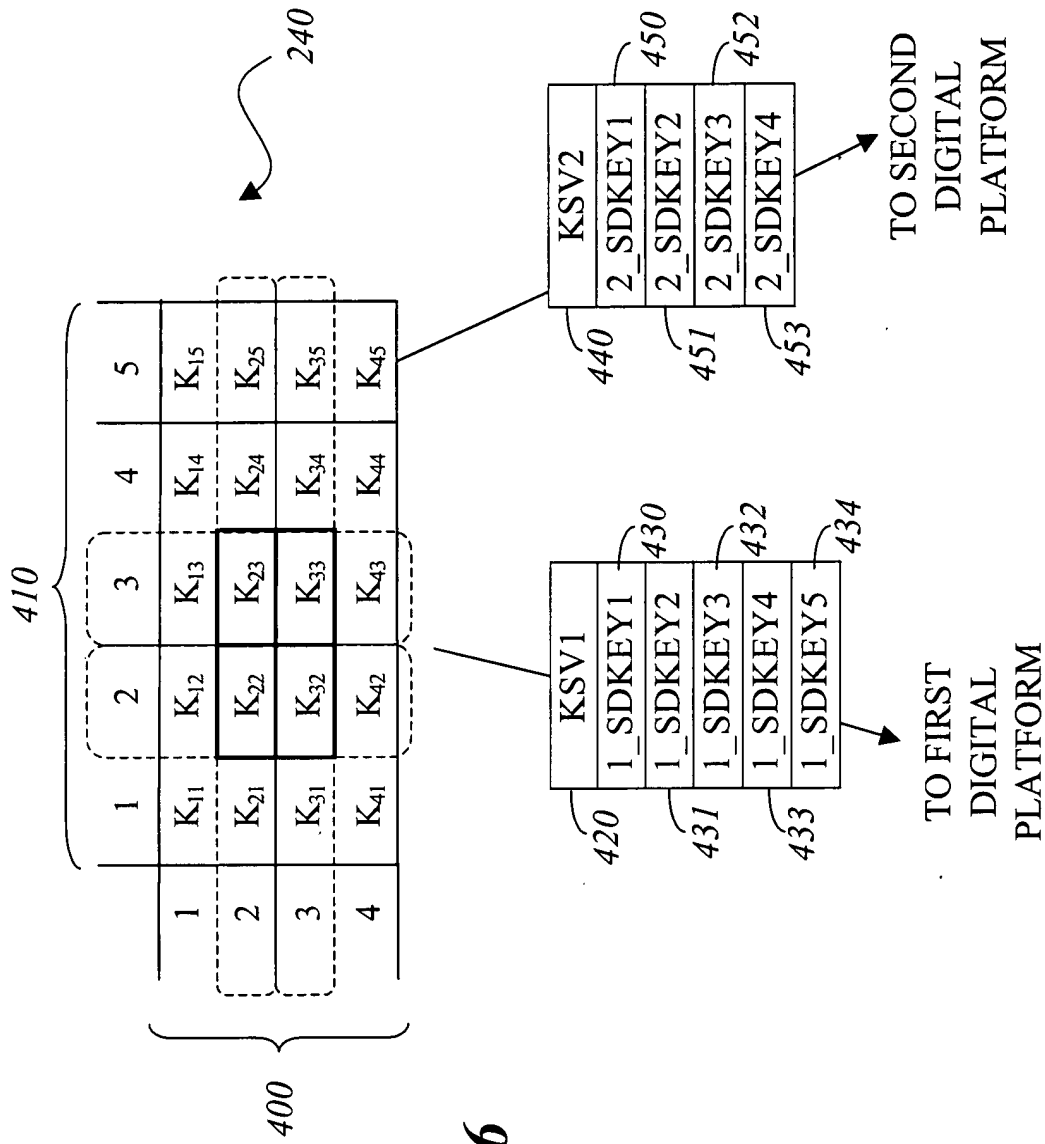


Figure 6

	SECRET DEVICE KEYS (DP1)	CONTENTS
430 ↗	1_SDKEY1	$K_{21} + K_{31}$
431 ↗	1_SDKEY2	$K_{22} + K_{32}$
432 ↗	1_SDKEY3	$K_{23} + K_{33}$
433 ↗	1_SDKEY4	$K_{24} + K_{34}$
434 ↗	1_SDKEY5	$K_{25} + K_{35}$

Figure 7

	SECRET DEVICE KEYS (DP2)	CONTENTS
450 ↗	2_SDKEY1	$K_{12} + K_{13}$
451 ↗	2_SDKEY2	$K_{22} + K_{23}$
452 ↗	2_SDKEY3	$K_{32} + K_{33}$
453 ↗	2_SDKEY4	$K_{42} + K_{43}$

Figure 8

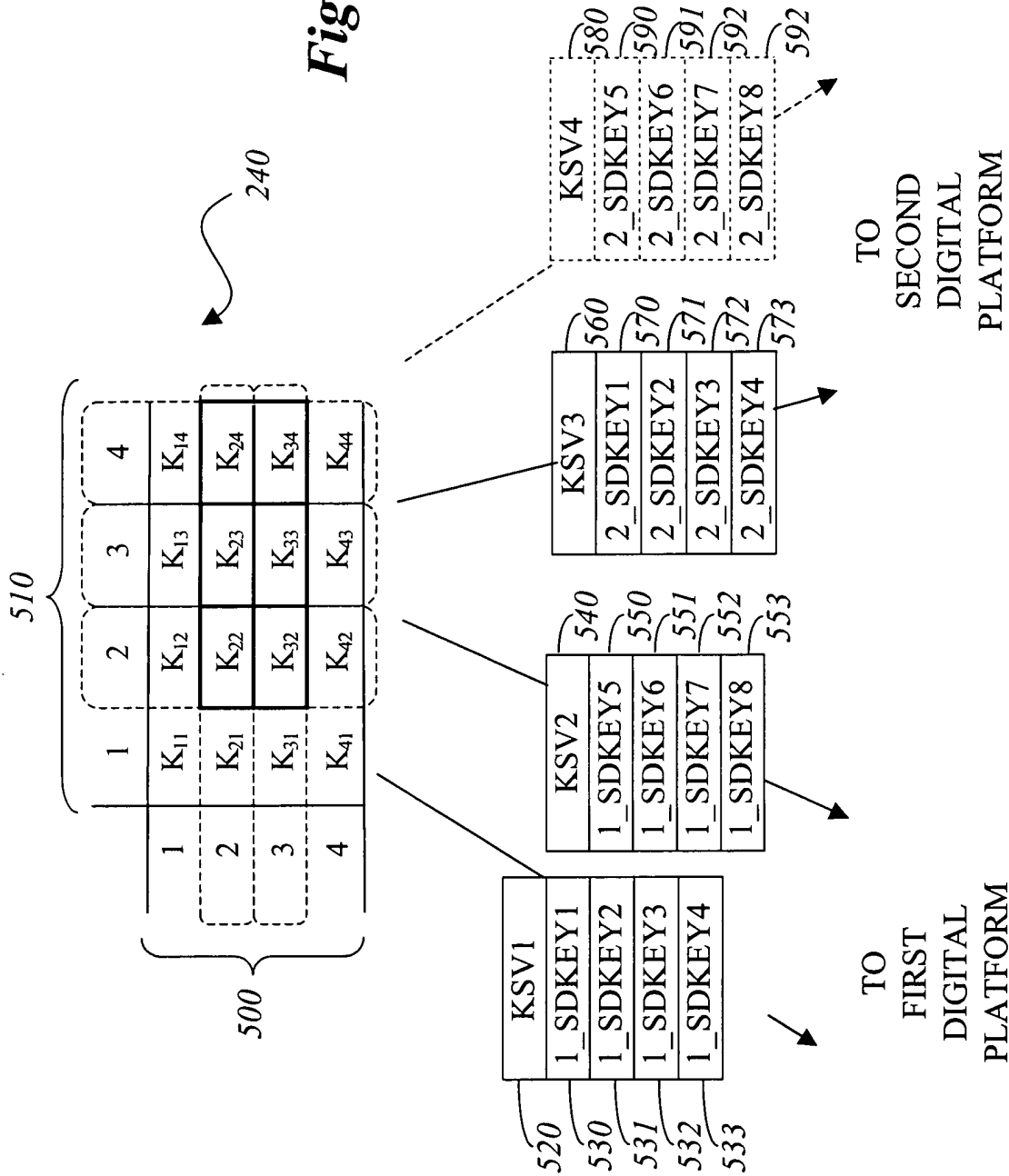


Figure 9

	SECRET DEVICE KEYS (DP1)	CONTENTS
530	1_SDKEY1	$K_{21} + K_{31}$
531	1_SDKEY2	$K_{22} + K_{32}$
532	1_SDKEY3	$K_{23} + K_{33}$
533	1_SDKEY4	$K_{24} + K_{34}$

Figure 10

	SECRET DEVICE KEYS (DP2)	CONTENTS
550	1_SDKEY5	$K_{12} + K_{14}$
551	1_SDKEY6	$K_{22} + K_{24}$
552	1_SDKEY7	$K_{32} + K_{34}$
553	1_SDKEY8	$K_{42} + K_{44}$

Figure 11

	SECRET DEVICE KEYS (DP1)	CONTENTS
570 ↗	2_SDKEY1	$K_{12} + K_{13}$
571 ↗	2_SDKEY2	$K_{22} + K_{23}$
572 ↗	2_SDKEY3	$K_{32} + K_{33}$
573 ↗	2_SDKEY4	$K_{42} + K_{43}$

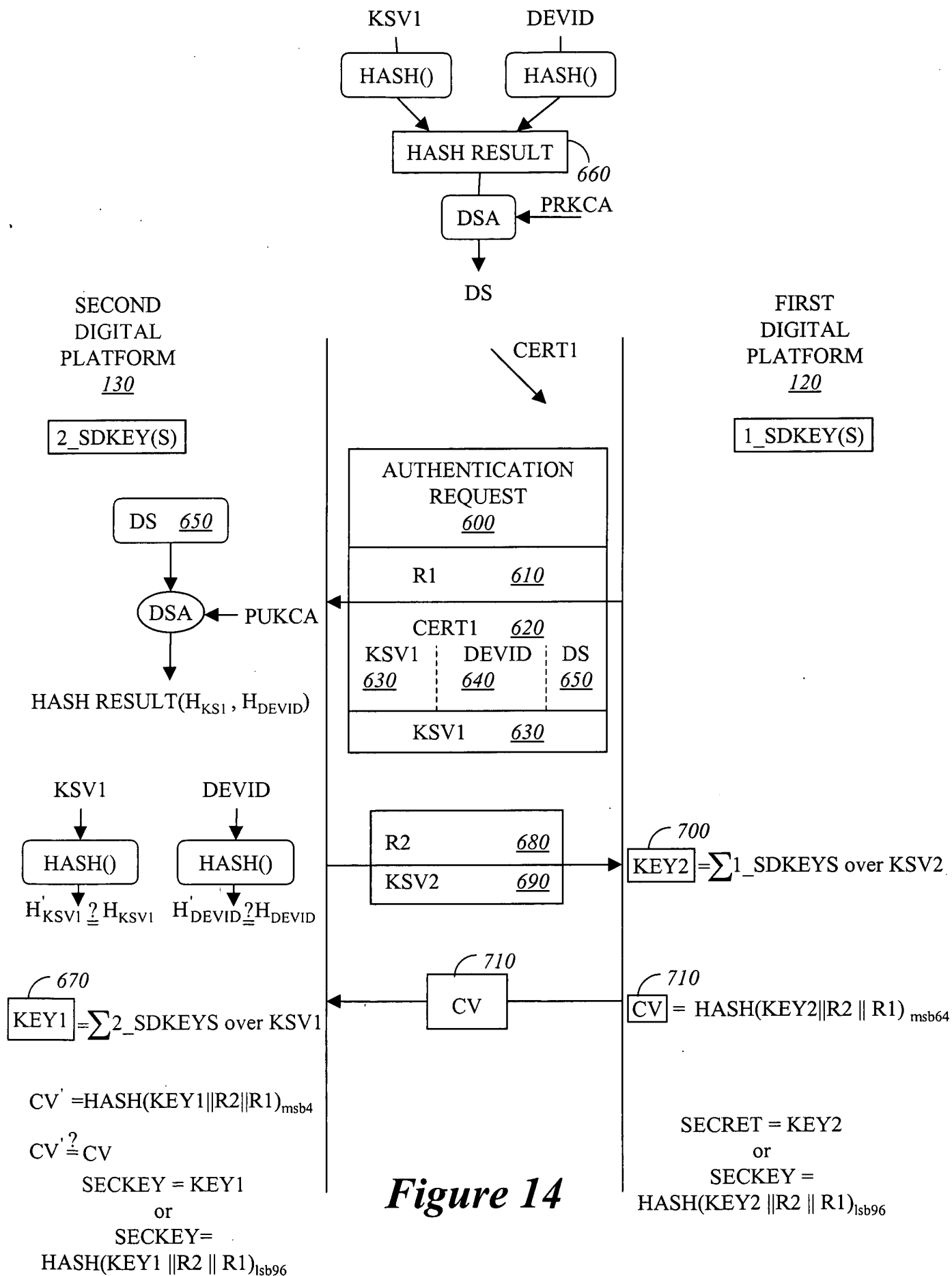
Figure 12

	SECRET DEVICE KEYS (DP2)	CONTENTS
590 ↗	2_SDKEY5	$K_{21} + K_{31}$
591 ↗	2_SDKEY6	$K_{22} + K_{32}$
592 ↗	2_SDKEY7	$K_{23} + K_{33}$
593 ↗	2_SDKEY8	$K_{24} + K_{34}$

Figure 13



664360 "2243260



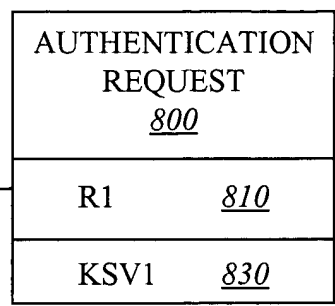
092752260

SECOND  
DIGITAL  
PLATFORM  
130

2\_SDKEY(S)

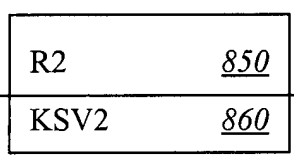
FIRST  
DIGITAL  
PLATFORM  
120

1\_SDKEY(S)



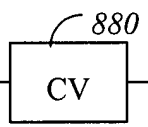
840

KEY1 =  $\sum 2\_SDKEYS \text{ over } KSV1$



870

KEY2 =  $\sum 1\_SDKEYS \text{ over } KSV2$



880

CV =  $\text{HASH}(\text{KEY2} \parallel \text{R2} \parallel \text{R1})_{\text{msb64}}$

CV' =  $\text{HASH}(\text{KEY1} \parallel \text{R2} \parallel \text{R1})_{\text{msb4}}$

CV'  $\stackrel{?}{=}$  CV

SECKEY = KEY1

or

SECKEY =

$\text{HASH}(\text{KEY1} \parallel \text{R2} \parallel \text{R1})_{\text{lsb96}}$

SECRET = KEY2

or

SECKEY =

$\text{HASH}(\text{KEY2} \parallel \text{R2} \parallel \text{R1})_{\text{lsb96}}$

Figure 15